

6GK6091-0AT2.-.... RS910

Technical Data

Product-type designation	RUGGEDCOM RS910
Product description	<p>serial device server with an integrated fully managed Ethernet switch, 128-bit Encryption, 2 serial ports (RS485/RS422/RS232) and/or up to 3 Ethernet ports (copper or fiber). Multimode, Singlemode, Multiple connector types (ST, MTRJ, LC, SC)</p> <p>THE RUGGEDCOM RS910 IS AN INDUSTRIALLY HARDENED SERIAL DEVICE SERVER WITH AN INTEGRATED, FULLY MANAGED, ETHERNET SWITCH, DESIGNED TO OPERATE RELIABLY IN ELECTRICALLY HARSH AND CLIMATICALLY DEMANDING ENVIRONMENTS. 128-BIT ENCRYPTION; 2 SERIAL PORTS (RS485/ RS422/RS232) AND/OR UP TO 3 ETHERNET PORTS (COPPER OR FIBER). MULTIMODE, SINGLEMODE; MULTIPLE CONNECTOR TYPES (ST, MTRJ, LC, SC)</p>



Transmission rate	
Transfer rate	
<ul style="list-style-type: none"> 1 2 	<p>10 Mbit/s</p> <p>100 Mbit/s</p>
Transfer rate	
<ul style="list-style-type: none"> in accordance with RS 232 in accordance with RS 422/485 	<p>300...115200 bit/s</p> <p>300...115200 bit/s</p>
Interfaces	
Number of electrical/optical connections / for network components or terminal equipment / maximum	3
Number of electrical connections	
<ul style="list-style-type: none"> for network components and terminal equipment maximum for serial interfaces / in accordance with RS 232/RS 422/RS 485 / maximum for signaling contact 	<p>3</p> <p>3</p> <p>2</p> <p>1</p>

• for power supply	1
• for redundant power supply	1
Design of electrical connection	
• for network components and terminal equipment	RJ45-Port, SUB-D 9 pin
• for signaling contact	3-pole terminal block
• for power supply	3-pole terminal block
Number of optical connections / for network components or terminal equipment / maximum	3
Number of optical connections / for fiber-optic cables	
• at 10 Mbit/s	3
• at 100 Mbit/s	3
Design of optical interface / for optical waveguide	
• at 10 Mbit/s	ST-Port (BFOC-Port)
• at 100 Mbit/s	ST-/SC-/MTRJ-/LC-Port
Range / at the optical interface / depending on the optical fiber used	2...90 km
Signal-Inputs/outputs	
Relay design	Form-C contact relay
Operating voltage / of signaling contacts / at DC / rated value	30 V
Operating current / of signaling contacts / at DC / maximum	1 A
Supply voltage, current consumption, power loss	
product options / wide range power supply	Yes
Type of voltage / 1 / of the supply voltage	DC
Supply voltage / 1	
• rated value	24 V
• rated value	18...36 V
Current consumed / 1 / at rated value of supply voltage / max.	0.4 A
Type of voltage / 2 / of the supply voltage	DC
Supply voltage / 2	
• rated value	48 V
• rated value	36...59 V
Current consumed / 2 / at rated value of supply voltage / max.	0.2 A
Type of voltage / 3 / of the supply voltage	DC
Supply voltage / 3	
• nominal value	110 V
• rated value	88...300 V
Type of voltage / 4 / of the supply voltage	AC
Supply voltage / 4	
• rated value	85...265 V
Product component / fusing at power supply input	Yes

Power loss	
<ul style="list-style-type: none"> • maximum 	10 W
Permitted ambient conditions	
Ambient temperature	
<ul style="list-style-type: none"> • during operating 	-40...+85 °C
<ul style="list-style-type: none"> • during storage 	-40...+85 °C
<ul style="list-style-type: none"> • during transport 	-40...+85 °C
<ul style="list-style-type: none"> • Comment 	A maximum operating temperature of +85 °C is permissible for a duration of 16 hours
Relative humidity / at 25 °C / without condensation / during operating / maximum	95 %
Coating	conformal coating optional
operating condition / fanless operation	Yes
Protection class IP	IP40
Design, dimensions and weight	
Design	compact
Width	66 mm (2.6 in)
Height	188 mm (7.4 in)
Depth	127 mm (5 in)
Net weight	1.22 kg
Material / of the enclosure	20 AWG galvanized steel enclosure
Type of mounting	
<ul style="list-style-type: none"> • 35 mm DIN rail mounting 	Yes
<ul style="list-style-type: none"> • S7-300 rail mounting 	No
<ul style="list-style-type: none"> • Installation 19 inch 	No
<ul style="list-style-type: none"> • wall mounting 	Yes
product component part / integrated / Ethernet switch	Yes
product function	
<ul style="list-style-type: none"> • DNP 3.0 to DNP conversion via UDP/TCP 	Yes
<ul style="list-style-type: none"> • Modbus RTU to Modbus TCP conversion 	Yes
<ul style="list-style-type: none"> • RAW socket mode for any serial protocols 	Yes
Protocol / is supported	
<ul style="list-style-type: none"> • DNP3 	Yes
<ul style="list-style-type: none"> • GVRP 	Yes
<ul style="list-style-type: none"> • HTTP 	Yes
<ul style="list-style-type: none"> • Modbus TCP 	Yes
<ul style="list-style-type: none"> • TFTP 	Yes
Product function / CLI	Yes
Product function / RMON	Yes
Product function / web-based management	Yes
Protocol / is supported / Telnet	Yes
Product function / MIB support	Yes
Protocol / is supported	

• SNMP v1	Yes
• SNMP v3	Yes
product function / for MIB-support	
• by BRIDGE-MIB	RFC1493
• by IF-MIB	RFC2863
• by RMON-MIB	RFC2819
• by RSTP-MIB	draft-ietf-bridge-bridgemib-smiv2-03
• by SNMPv2-MIB	RFC1907
• by SNMPv2-SMI	RFC2578
• by SNMPv2-TC	RFC2579
• by TCP-MIB	RFC2012
• by UDP-MIB	RFC2013
Number of VLANs / maximum	255
Product function / VLAN - port based	Yes
Product function	
• DHCP Option 82	Yes
product function	
• redundancy procedure MSTP	Yes
• RSTP redundancy protocol	Yes
• eRSTP	Yes
Protocol / is supported	
• MSTP	Yes
• RSTP	Yes
Product function / IEEE 802.1x(radius)	Yes
Protocol / is supported / SSL	Yes
Protocol / is supported	
• NTP	No
• SNTP	Yes
Standards, specifications, approvals	
Standard	
• for EMC	FCC Part 15 (Class A), EN55022 (CISPR22 Class A)
• for safety / of CSA and UL	UL 60950-1, CSA C22.2 no. 60950-7
• for hazardous area / of CSA and UL	Hazardous Locations: Class 1 Division 2
• for emitted interference	EN 61000-6-4 (Class A)
• for interference immunity	EN 61000-6-2
Laser protection class	Complies with 21 CFR Chapter 1, Subchapter J
Verification of suitability	EN 61000-6-2, EN 61000-6-10
Verification of suitability	
• regarding NEMA	TS 2
• CE mark	Yes

<ul style="list-style-type: none"> • C-Tick • IEC 61850-3 	No
	Yes
Further Information / Internet Links	
Internet link	
<ul style="list-style-type: none"> • to website 	
<ul style="list-style-type: none"> • Industry Mall/RUGGEDCOM Selector 	http://ruggedcom-selector.automation.siemens.com
<ul style="list-style-type: none"> • Industry Mall 	http://www.siemens.com/industrial-controls/mall
<ul style="list-style-type: none"> • selection instrument cables and connectors 	http://www.siemens.com/snst
<ul style="list-style-type: none"> • CAx-Download-Manager 	http://www.siemens.com/cax
<ul style="list-style-type: none"> • industrial communication 	http://www.siemens.com/simatic-net
<ul style="list-style-type: none"> • Information und Download Center 	http://www.siemens.com/automation/net/catalog
<ul style="list-style-type: none"> • image database 	http://automation.siemens.com/bilddb
<ul style="list-style-type: none"> • Industry Online Support 	http://support.automation.siemens.com
letzte Änderung:	Feb 24, 2014